

SEQUENCE LISTING

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KANNO, Kimiyoshi
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<20> Novel receptor protein and method for the diagnosis of an inflammatory disease by using the same

<130> 99-1043

<150> JP 10-249752

<151> 1998-09-03

<150> JP 11-070800

<151> 1999-03-16

<150> PCT/JP99/04801

<151> 1999-09-03

<160> 12

<210> 1

<211> 1014

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (1) ... (1011)

<400> 1

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1 5 10 15	
tgc gac cgc cct gtg gac tgc ctg gat ggc gcc tgc ctg gcc atc gac	96
Ser Asp Arg Pro Val Asp Cys Leu Asp Gly Ala Cys Leu Ala Ile Asp	
20 25 30	
cgc ctg cgc gtg gcc ccg ctc cca ctg tat gcc gcc atc ttc ctg gtg	144
Pro Leu Arg Val Ala Pro Leu Pro Leu Tyr Ala Ala Ile Phe Leu Val	
35 40 45	
ggg gtg ccg ggc aat gcc atg gtg gcc tgg gtg gct ggg aag gtg gcc	192
Gly Val Pro Gly Asn Ala Met Val Ala Trp Val Ala Gly Lys Val Ala	
50 55 60	
cgc cgg agg gtg ggt gcc acc tgg ttg ctc cac ctg gcc gtg gcg gat	240
Arg Arg Arg Val Gly Ala Thr Trp Leu Leu His Leu Ala Val Ala Asp	

65	70	75	80	
ttg ctg tgc tgt ttg tct ctg ccc atc ctg gca gtg ccc att gcc cgt	288			
Leu Leu Cys Cys Leu Ser Leu Pro Ile Leu Ala Val Pro Ile Ala Arg				
85	90	95		
gga ggc cac tgg ccg tat ggt gca gtg ggc tgt cgg gcg ctg ccc tcc	336			
Gly Gly His Trp Pro Tyr Gly Ala Val Gly Cys Arg Ala Leu Pro Ser				
100	105	110		
atc atc ctg ctg acc atg tat gcc agc gtc ctg ctc ctg gca gct ctc	384			
Ile Ile Leu Leu Thr Met Tyr Ala Ser Val Leu Leu Leu Ala Ala Leu				
115	120	125		
agt gcc gac ctc tgc ttc ctg gct ctc ggg cct gcc tgg tgg tct acg	432			
Ser Ala Asp Leu Cys Phe Leu Ala Leu Gly Pro Ala Trp Trp Ser Thr				
130	135	140		
gtt cag cgg gcg tgc ggg gtg cag gtg gcc tgt ggg gca gcc tgg aca	480			
Val Gln Arg Ala Cys Gly Val Gln Val Ala Cys Gly Ala Ala Trp Thr				
145	150	155	160	
ctg gcc ttg ctg ctc acc gtg ccc tcc gcc atc tac cgc cgg ctg cac	528			
Leu Ala Leu Leu Leu Thr Val Pro Ser Ala Ile Tyr Arg Arg Leu His				
165	170	175		
cag gag cac ttc cca gcc cgg ctg cag tgt gtg gtg gac tac ggc ggc	576			
Gln Glu His Phe Pro Ala Arg Leu Gln Cys Val Val Asp Tyr Gly Gly				
180	185	190		
tcc tcc agc acc gag aat gcg gtg act gcc atc cgg ttt ctt ttt ggc	624			
Ser Ser Ser Thr Glu Asn Ala Val Thr Ala Ile Arg Phe Leu Phe Gly				
195	200	205		
ttc ctg ggg ccc ctg gtg gcc gtg gcc agc tgc cac agt gcc ctc ctg	672			
Phe Leu Gly Pro Leu Val Ala Val Ala Ser Cys His Ser Ala Leu Leu				
210	215	220		
tgc tgg gca gcc cga cgc tgc cgg ccg ctg ggc aca gcc att gtg gtg	720			
Cys Trp Ala Ala Arg Arg Cys Arg Pro Leu Gly Thr Ala Ile Val Val				
225	230	235	240	
ggg ttt ttt gtc tgc tgg gca ccc tac cac ctg ctg ggg ctg gtg ctc	768			
Gly Phe Phe Val Cys Trp Ala Pro Tyr His Leu Leu Gly Leu Val Leu				
245	250	255		
act gtg gcg gcc ccg aac tcc gca ctc ctg gcc agg gcc ctg cgg gct	816			
Thr Val Ala Ala Pro Asn Ser Ala Leu Leu Ala Arg Ala Leu Arg Ala				
260	265	270		
gaa ccc ctc atc gtg ggc ctt gcc ctc gct cac agc tgc ctc aat ccc	864			
Glu Pro Leu Ile Val Gly Leu Ala Leu Ala His Ser Cys Leu Asn Pro				
275	280	285		
atg ctc ttc ctg tat ttt ggg agg gct caa ctc cgc cgg tca ctg cca	912			
Met Leu Phe Leu Tyr Phe Gly Arg Ala Gln Leu Arg Arg Ser Leu Pro				
290	295	300		
gct gcc tgt cac tgg gcc ctg agg gag tcc cag ggc cag gac gaa agt	960			
Ala Ala Cys His Trp Ala Leu Arg Glu Ser Gln Gly Gln Asp Glu Ser				
305	310	315	320	
gtg gac agc aag aaa tcc acc agc cat gac ctg gtc tcg gag atg gag	1008			
Val Asp Ser Lys Lys Ser Thr Ser His Asp Leu Val Ser Glu Met Glu				
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gtg tag
Val

1014

<210> 2
<211> 337
<212> PRT
<213> Homo sapiens

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Ser Asp Arg Pro Val Asp Cys Leu Asp Gly Ala Cys Leu Ala Ile Asp
20 25 30
Pro Leu Arg Val Ala Pro Leu Pro Leu Tyr Ala Ala Ile Phe Leu Val
35 40 45
Gly Val Pro Gly Asn Ala Met Val Ala Trp Val Ala Gly Lys Val Ala
50 55 60
Arg Arg Arg Val Gly Ala Thr Trp Leu Leu His Leu Ala Val Ala Asp
65 70 75 80
Leu Leu Cys Cys Leu Ser Leu Pro Ile Leu Ala Val Pro Ile Ala Arg
85 90 95
Gly Gly His Trp Pro Tyr Gly Ala Val Gly Cys Arg Ala Leu Pro Ser
100 105 110
Ile Ile Leu Leu Thr Met Tyr Ala Ser Val Leu Leu Leu Ala Ala Leu
115 120 125
Ser Ala Asp Leu Cys Phe Leu Ala Leu Gly Pro Ala Trp Trp Ser Thr
130 135 140
Val Gln Arg Ala Cys Gly Val Gln Val Ala Cys Gly Ala Ala Trp Thr
145 150 155 160
Leu Ala Leu Leu Leu Thr Val Pro Ser Ala Ile Tyr Arg Arg Leu His
165 170 175
Gln Glu His Phe Pro Ala Arg Leu Gln Cys Val Val Asp Tyr Gly Gly
180 185 190
Ser Ser Ser Thr Glu Asn Ala Val Thr Ala Ile Arg Phe Leu Phe Gly
195 200 205
Phe Leu Gly Pro Leu Val Ala Val Ala Ser Cys His Ser Ala Leu Leu
210 215 220
Cys Trp Ala Ala Arg Arg Cys Arg Pro Leu Gly Thr Ala Ile Val Val
225 230 235 240
Gly Phe Phe Val Cys Trp Ala Pro Tyr His Leu Leu Gly Leu Val Leu
245 250 255
Thr Val Ala Ala Pro Asn Ser Ala Leu Leu Ala Arg Ala Leu Arg Ala
260 265 270
Glu Pro Leu Ile Val Gly Leu Ala Leu Ala His Ser Cys Leu Asn Pro
275 280 285
Met Leu Phe Leu Tyr Phe Gly Arg Ala Gln Leu Arg Arg Ser Leu Pro
290 295 300
Ala Ala Cys His Trp Ala Leu Arg Glu Ser Gln Gly Gln Asp Glu Ser

305		310		315		320									
Val	Asp	Ser	Lys	Lys	Ser	Thr	Ser	His	Asp	Leu	Val	Ser	Glu	Met	Glu
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Val															

<210> 3
 <211> 1287
 <212> DNA
 <213> Homo sapiens

<400> 3

cctgtgtgcc	acgtgctgga	caaattcttaa	ctcctcaagg	actcccaaaa	ccagagacac	60
caggagcctg	aatggggaac	gattctgtca	gctacgagta	tggggattac	agcgacctct	120
cggaccgccc	tgtggactgc	ctggatggcg	cctgcctggc	catcgaccog	ctgcgcgtgg	180
ccccgctccc	actgtatgcc	gccatcttcc	tgggtgggggt	gccgggcaat	gccatgggtg	240
cctgggtggc	tgggaaggtg	gcccgcggga	gggtgggtgc	cacctgggtg	ctccacctgg	300
ccgtggcgga	tttgcctgtc	tggttgcctc	tgcccatcct	ggcagtggcc	attgcccgtg	360
gaggccactg	gccgtatggg	gcagtgggct	gtcgggcgct	gccctccatc	atcctgctga	420
ccatgtatgc	cagcgtcctg	ctcctggcag	ctctcagtgc	cgacctctgc	ttcctggctc	480
tcgggcctgc	ctgggtggct	acgggttcagc	gggcgtgcgg	ggtgcagggtg	gcctgtgggg	540
cagcctggac	actggccttg	ctgctcaccg	tgccctccgc	catctaccgc	cggctgcacc	600
aggagcactt	cccagcccgg	ctgcagtgtg	tgggtggacta	cggcggctcc	tccagcaccg	660
agaatgcggt	gactgccatc	cggtttcttt	ttggcttctc	ggggcccttg	gtggccgtgg	720
ccagctgcca	cagtgccttc	ctgtgctggg	cagcccgaag	ctgccggccg	ctgggcacag	780
ccattgtggt	ggggtttttt	gtctgctggg	cacctacca	cctgctgggg	ctggtgctca	840
ctgtggcggc	cccgaactcc	gcactcctgg	ccagggccct	gcgggctgaa	cccctcatcg	900
tgggccttgc	cctcgctcac	agctgcctca	atcccatgct	cttctgtgat	tttgggaggg	960
ctcaactccg	ccggtcactg	ccagctgcct	gtcactgggc	cctgagggag	tcccagggcc	1020
aggacgaaag	tgtggacagc	aagaaatcca	ccagccatga	cctgggtctcg	gagatggagg	1080
tgtaggctgg	agagacattg	tgggtgtgta	tcttcttata	tcatttcaca	agactggctt	1140
caggcatagc	tggatccagg	agctcaatga	tgtcttcatt	ttattccttc	cttcattcaa	1200
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tgaccaaaac	agacacaaat	cctgccc				1287

<210> 4
 <211> 1287
 <212> DNA
 <213> Homo sapiens

<400> 4

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acatagcaag	tgcatgatgg	atatctgttg	aatgaaggaa	ggaataaaaat	gaagacatca	120
ttgagctcct	ggatccagct	atgcctgaag	ccagtcttgt	gaaatgagat	aagaagatac	180
acaccacaaa	tgtctctcca	gcctacacct	ccatctccga	gaccaggtea	tggctgggtg	240
atttcttgc	gtccacactt	tcgtcctggc	cctgggactc	cctcagggcc	cagtgcagg	300
cagctggcag	tgaccggcgg	agttgagccc	tcccaaaaata	caggaagagc	atgggattga	360
ggcagctgtg	agcgagggca	aggcccacga	tgaggggttc	agcccgcagg	gccctggcca	420

ggagtgcgga	gttcggggcc	gccacagtga	gcaccagccc	cagcaggtgg	tagggtgccc	480
agcagacaaa	aaaccccacc	acaatggctg	tgcccagcgg	ccggcagcgt	cgggctgccc	540
agcacaggag	ggcactgtgg	cagctggcca	cggccaccag	gggcccagg	aagccaaaaa	600
gaaaccggat	ggcagtcacc	gcattctcgg	tgctggagga	gccgccgtag	tccaccacac	660
actgcagccg	ggctgggaag	tgtcctcgtg	gcagccggcg	gtagatggcg	gagggcacgg	720
tgagcagcaa	ggccagtgtc	caggtgccc	cacaggccac	ctgcaccccg	cacgcccgt	780
gaaccgtaga	ccaccaggca	ggcccgagag	ccaggaagca	gaggtcggca	ctgagagctg	840
ccaggagcag	gacgctggca	tacatgggtca	gcaggatgat	ggagggcagc	gcccgcagac	900
ccactgcacc	atacggccag	tggcctccac	gggcaatggg	cactgccagg	atgggcagag	960
acaaacagca	cagcaaattcc	gccacggcca	ggtggagcaa	ccaggtggca	cccaccctcc	1020
ggcggggccac	cttcccagcc	accagggcca	ccatggcatt	gccgggcacc	cccaccagga	1080
agatggcggc	atacagtggg	agcggggcca	cgcgcagcgg	gtcgatggcc	aggcaggcgc	1140
catccaggca	gtccacaggg	cggtcggaga	ggtcgtgta	atccccatac	tcgtagctga	1200
cagaatcggt	ccccattcag	gctcctggtg	tctctggttt	tgggagtcct	tgaggagtta	1260
agatttgtcc	agcacgtggc	acacagg				1287

<210> 5

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<221> modified base

<222> 18

<223> i

<220>

<221> modified base

<222> 22

<223> i

<220>

<221> modified base

<222> 24

<223> i

<220>

<223> Degenerative PCR primer designed based on the seq of conventional

7-pass transmembrane receptor proteins which are considered to participate in the proliferation of melanoma

<400> 5

atcttaagct tgaacctngc cntngcdgac

30

<210> 6

<211> 33
<212> DNA
<213> Artificial Sequence

§

<220>
<221> misc difference
<222> 21
<223> a, g, c or t

<220>
<221> modified base
<222> 22
<223> i

<220>
<221> modified base
<222> 28
<223> i

<220>
<223> Degenerative PCR primer designed based on the seq of
conventional
7-pass transmembrane receptor proteins which are considered to
participate in the proliferation of melanoma

<400> 6
cccaacgaat tcrtagatsa nnggrttnav rca

33

<210> 7
<211> 32
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic primer used for constructing the recombinant DNA
containing C5L2 gene; primer has a seq obtained by adding spacer
gggg and HindIII site aagctt to the 5'-end of a 22-nucleotide
seq corresponding to the 1st (a) to 22nd (t) of SEQ ID NO:1

<400> 7
ggggaagctt atggggaacg attctgtcag ct

32

<210> 8
<211> 30
<212> DNA
<213> Artificial Sequence

<220>

<223> Synthetic primer used for constructing the recombinant DNA containing C5L2 gene; primer has a seq obtained by adding spacer ggga and SacII site ccgcgg to the 5'-end of a 20-nucleotide seq corresponding to the 206th (c) to 225th (a) of SEQ ID NO:4

<400> 8

gggaccgcgg cacctccatc tccgagacca

30

<210> 9

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic primer used in RT-PCR performed for amplifying C5L2 gene

<400> 9

atcatcctgc tgaccatgta tgccag

26

<210> 10

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic primer used in RT-PCR performed for amplifying C5L2 gene

<400> 10

aaccgatgg cagtcaccgc attct

25

<210> 11

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic primer used in RT-PCR performed for amplifying G3PDH (glyceraldehyde 3-phosphate dehydrogenase) gene

<400> 11

tgaaggtcgg agtcaacgga tttggt

26

<210> 12

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic primer used in RT-PCR performed for amplifying G3PDH
(glyceraldehyde 3-phosphate dehydrogenase) gene

<400> 12

catgtgggcc atgaggtcca ccac

24